A-2
8/19/69

CERRO COPPER & BRASS COMPANY
DIVISION OF CERRO CORPORATION

ST. LOUIS WORKS
P. O. BOX 681
EAST ST. LOUIS • ILLINOIS 62202
618-337-6000

August 19, 1969

154089

Mr. Wm, H. Baker, Jr.
Hydrologic Assistant, State Water Survey
Tract 0127
Southern Illinois University
Edwardsville, Illinois 62025

Dear Mr. Baker:

Please excuse the long delay in getting you the information on our 1968 groundwater pumpage. Your letter was mislaid and reached my attention just today.

Our deepwell pumping capacity has not changed materially and is still estimated at 1.64 MGD. For your information we also purchased about .85 MGD city water, an increase of about 15% over 1967. This is due to more of our new equipment being provided with closed recirculating systems, fed by city water make-up.

The survey form calls for groundwater pumpage information only and therefore does not reveal the treatment applied to our closed systems.

I trust that this delay has not inconvenienced you too greatly and hope that the information is not too late to be included in your survey.

Yours very truly,

CERRO COPPER AND BRASS COMPANY
Division of CERRO CORPORATION

Paul Tandler,
Director of Planning & Methods

PT/as

CC: W. E. Dunnick
R. O. Wigger
W. G. Graff
File 1104

Enc.

C03372

STATE OF ILLINOIS
DEPARTMENT OF
REGISTRATION AND EDUCATION
~~JOHN C. WATSON,~~ W. H. Robinson
DIRECTOR, SPRINGFIELD
BOARD OF
NATURAL RESOURCES
AND CONSERVATION
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DEAN WILLIAM L. EVERITT

Illinois State Water Survey

WATER RESOURCES BUILDING
605 E. SPRINGFIELD, CHAMPAIGN
MAIL: BOX 232; URBANA, ILLINOIS 61801
AREA CODE 217
PHONE 333-2210

WILLIAM C. ACKERMANN, CHIEF

March 11, 1969

Mr. Paul Tandler
Cerro Copper and Brass Co.
South Mississippi Ave.
Sauget, Illinois

Dear Mr. Tandler:

I am writing to request your 1968 pumpage total. The figures that have been used for the past three years are 1.64 mgd (million gallons per day). If there has been any change please let me know.

We are making an effort towards more realistic estimates of future groundwater requirements. Part of this effort requires that we make an estimate of the use and reuse of groundwater. I have enclosed a form and stamped envelope covering the details that I will need for this breakdown. If possible I would appreciate receiving this information at your earliest possible convenience. Estimates are sufficient on this form where applicable.

Thank you for your cooperation. If we may be of any service to you please call on us.

Very truly yours
ILLINOIS STATE WATER SURVEY

William H. Baker, Jr.
Hydrologic Assistant
State Water Survey
Tract 0127
Southern Illinois University
Edwardsville, Illinois-62025

C03373

INDUSTRIAL PUMPAGE QUESTIONAIRE
ILLINOIS STATE WATER SURVEY
EDWARDSVILLE, ILLINOIS

YEAR: 1968

1. Company: Cerro Copper & Brass Co.

2. Address: Sauget, Ill.

3. Reported by: P. Tonsion

4. Product manufactured: Electrolytic Copper & Copper Tubing

5. Total groundwater pumpage: 1.64 ~~(gal) or~~ (mgd).

6. Water requirement per unite product: Not applicable (gal)

7. Use of water, by percent: a. cooling 90 % b. consumed 0 %

c. air conditioning 0 % d. sanitary 10 %.

8. Type of cooling system: (check one)

Portion ✓ a. Once through - self explanatory.

Portion ✓ b. Open recirculating system - evaporation of water in cooling ponds or towers.

____ c. Closed recirculating system.

9. Open recirculating system: (check one)

✓ a. Cooling ponds.

____ i. Spray

✓ ii. Non-spray

____ b. Cooling towers

____ i. Wind (atmospheric deck tower)

____ ii. Natural draft (chimney effect)

____ iii. Forced draft

10. Average temperature drop in pond or tower: 10 - 15 degrees.

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11. Industrial water treatment before use: (check)

____a. Sedimentation; with or without addition of coagulating chemicals.

____b. Filtration; sand, anthracite, activated carbon, or a combination.

____c. Disenfection; usually chlorination.

____d. Areation.

____e. Softening; addition of chemicals or ion-exchange.

____f. Removal of iron, manganese, others.

____g. Prevention or removal of tastes, odors, color.

____h. Chemical treatment to correct corrosiveness.

12. Treatment of water recycled into process: None

13. Treatment of water before being discharged into sewers: None

14. When was plant converted from once through cooling to reuse of water? Since The 1930's

15. Percent reduction in use of water by recycling: 50 %

16. Plans for future water conservation measures: New Equipment is Being Provided With Re-Circulating (Closed) Systems and Atmospheric Cooling Towers.

The information given above (is) (is not) approved for publication under the name of the company and will be kept confidential if so requested.

Purpose of the questionaire: To more accurately estimate and project the future industrial water requirements for the American Bottom area.